



L2 ANSWER 7 OF 17 CA COPYRIGHT 2004 ACS on STN
AN 133:21362 CA
ED Entered STN: 30 Jun 2000
TI Sulfate-free hydraulic binders for mortar and concrete mixes
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SO Ger. Offen., 8 pp.
CODEN: GWXXBX
DT Patent
LA German
IC ICM C04B028-02
ICS C04B024-28; C04B024-26; C04B024-18; C04B024-16; C04B024-30;
C04B022-10
CC 58-3 (Cement, Concrete, and Related Building Materials)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19854476	A1	20000531	DE 1998-19854476	19981125
	DE 19854476	C2	20020411		
	EP 1004556	A1	20000531	EP 1999-117564	19990906
	EP 1004556	B1	20010613		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	ES 2158718	T3	20010901	ES 1999-117564	19990906
	PT 1004556	T	20011030	PT 1999-117564	19990906
	NO 9905187	A	20000526	NO 1999-5187	19991025
	GR 3036607	T3	20011231	GR 2001-401468	20010912
	NO 2002000658	A	20000526	NO 2002-658	20020211
PRAI	DE 1998-19854476	A	19981125		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
DE 19854476	ICM	C04B028-02
	ICS	C04B024-28; C04B024-26; C04B024-18; C04B024-16; C04B024-30; C04B022-10

AB The title binders consist of (a) .gtoreq.1 fine sulfate-free hydraulic binder esp. **portland cement** clinker or limestone powder, (b) .gtoreq.1 sulfonate-contg. setting retardant 0.4-4 wt.%, (c) .gtoreq.1 setting accelerator .apprx.1.5 wt.%, and (d) .gtoreq.1 sulfonate-free **superplasticizer** (e.g., polyacrylate, polycarboxylate, or polyaspartic acid) 0.25-3 wt.%. The sulfonate-contg. setting retardant is selected from lignosulfonate, sulfonic acid, sulfonic soap, alkylbenzolsulfonate, naphthalenesulfonate, or melamineformaldehyde. The setting accelerator is selected from alkali carbonates or bicarbonates. The water wt. part in fluid concrete or mortar mixes based on these binders is 0.3-0.6, esp. 0.35-0.45.

ST hydraulic binder cement fluid concrete mortar

IT Setting agents

- Portland cement
- superplasticizer
- polyacrylate

Claims 1, 2, 4, 9-11